a first mixer device configured to receive said LO signal and said first RF signal included within a first band and responsively to output a first Intermediate Frequency (IF) signal;

a second mixer device configured to receive said LO signal and said second RF signal included within a second band and responsively to output a second IF signal;

a second two way switching device responsive to said base band controller for switching between said first and second IF signals; and

wherein said local oscillator is configured to operate within a third band located between said first and second bands and is responsive to said base band controller.

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7 8. (Amended) A system comprising:

a transmitter circuit; and

a dual band radio receiver coupled to said transmitter, said dual band radio receiver including

a local oscillator configured to generate an LO signal,

a first two way switching device responsive to a base band controller for switching between a first [Radio Frequency (RF) signal <u>and a second RF signal,</u> [received from] <u>the first two way switching device coupled to</u> a first front end receiver and [a second RF signal received from] a second front end receiver,

a first mixer device configured to receive said LO signal and [a] said first RF signal included within a first band and responsively to output a first IF signal,

a second mixer device configured to receive said LO signal and [a] said second RF signal included within a second band and responsively to output a second IF signal,

a second two way switching device responsive to said base band controller for switching between said first and second IF signals, and

wherein said local oscillator is configured to operate within a third band positioned between said first and second bands and responsive to said base band controller.

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21. (Amended) A method for providing a dual band radio receiver [, the method] comprising [the steps]:

providing first and second front end receivers ;

providing first and second mixers, wherein the first mixer is coupled to the first front end receiver and the second mixer is coupled to the second front end receiver;

providing a base band controller;

providing a circuit configured to determine whether an RF signal [input thereto from the first or second front end receivers] belongs to one of a first and second bands, said circuit coupling said RF signal to one of said first and second [mixers] front end receivers if said circuit determines that the RF signal belongs to one of a first and second bands respectively and is responsive to said base band controller; and

coupling a local oscillator to said first and second mixers, said local oscillator configured to generate signals within a third band that is positioned approximately mid-way between said first and second bands and wherein said local oscillator is responsive to said base band controller.